

We claim:

1. An apparatus for a mobile self-contained vehicle wash including:

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a trailer;

a water source contained within said trailer;

a pump mechanically connected to supplied by said water source wherein said pump is located within said trailer;

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a vehicle wash structure supplied by said pump whereby said vehicle wash structure in a disassembled form is contained within said trailer and whereby said wash structure is assembled for use as a vehicle wash outside of said trailer.

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2. The apparatus of claim 1, wherein said trailer fully encloses an interior.

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3. The apparatus of claim 1, further including a power generator located within said trailer, whereby said power generator is an independent power source.

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4. The apparatus of claim 1, further including a heat sensor wherein said heat sensor shuts down power at a circuit breaker box within said trailer.

5. The apparatus of claim 1, further including a vacuum, whereby said vacuum supports a vacuuming operation within said vehicle wash structure.

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6. The apparatus of claim 1, further including a power wash generator located in said trailer, whereby said power wash generator provides pressurized and high-heated water to said vehicle wash structure.

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7. The apparatus of claim 6, further including a hand-held sprayer whereby said hand-held spray is supplied with water from said power wash generator.

10 8. The apparatus of claim 1 further including an air compressor, wherein said air compressor provides air to the vehicle wash structure.

15 9. The apparatus of claim 1, further including a transition box wherein said transition box provides a central connection point for compressed air, waste water return, and air vacuum traversing between said vehicle wash structure and said trailer.

20 10. The apparatus of claim 1, further including a flex hose wherein said flex hose provides umbilical support of necessary systems from said trailer to said vehicle wash structure.

25 11. The apparatus of claim 1, further including a remotely operated electrical receptacle wherein said electrical receptacle can be switched at a distance to different power modes.

12. The apparatus of claim 1, further including a heat source which provides heat for said trailer and said vehicle wash structure.

5 13. The apparatus of claim 12, further including a propane tank which provides fuel for said heat source.

10 14. The apparatus of claim 1, further including a tributary tank wherein said tributary tank holds waste water produced from said vehicle wash structure.

15 15. The apparatus of claim 14, further including a plurality of filters wherein said filters recycle waste water contained and drawn from said tributary tank.

16. The apparatus of claim 15, wherein said waste water is filtered to approximately three microns.

20 17. The apparatus of claim 1, further including an electronic regulator valve wherein said valve controls a water pressure of said water source.

25 18. The apparatus of claim 1, further including a containment cart whereby said containment cart is a storage area for said vehicle wash structure.

30 19. The apparatus of claim 18, wherein said containment cart provides additional storage for support equipment for said vehicle wash structure.

20. The apparatus of claim 19, wherein said containment cart further includes a pivoting movement structure.

21. The apparatus of claim 20, wherein said containment
 5 cart further includes a loading bracket machined for securing spray system piping.

22. The apparatus of claim 1, wherein said wash structure
 10 further includes corner pieces wherein said corner pieces provide attachment areas for a covering canvass.

23. The apparatus of claim 22, wherein said corner piece
 15 further provides support for wash piping of said vehicle wash structure.

24. The apparatus of claim 22, wherein said corner piece
 further includes attachment areas wash support equipment shelving.

20 25. The apparatus of claim 22, wherein said corner piece further includes a guide mechanism where said guide mechanism allows roller operation of end canvass closures of said vehicle wash structure.

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26. A method of assembling a mobile self-contained vehicle wash, said method comprising the steps of

providing a trailer containing said mobile self-contained vehicle wash;

5 removing a vehicle wash structure from said trailer;
assembling said vehicle wash structure on a parking surface; and

connecting said vehicle wash structure to a pump contained within said trailer, thereby providing
10 pressurized water to said wash structure.

27. The method of claim 26, wherein said vehicle wash structure is removed on a containment cart.

15 28. The method of claim 26, further including the step of setting a containment mat on the base of said vehicle wash structure wherein said containment mat collects residual liquid produced during vehicle wash operation.

20 29. The method of claim 26, further including the step of pumping residual liquid produced during a wash operation back to said trailer.

25 30. The method of claim 29, further including the step of treating said residual liquid for re-use within the vehicle wash structure.

31. The method of claim 26, further including the step of installing an overhead spray section wherein said spray
30 section provides directional flow of wash fluid within said vehicle wash structure.

32. The method of claim 31, further including the step of monitoring a pressure within said spray section thereby ensuring adequate wash fluid coverage of said vehicle.

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33. The method of claim 26, further including the step of positioning structural components of said vehicle wash structure using a jack.

10 34. The method of claim 33 wherein said jack comprises
a base;
a stanchion pivoting on said base;
a cranking device affixed to said stanchion;
wire rope wound on said cranking device wherein said
15 cranking device lifts said structural components by wire
tension;
a notched jacking plate mechanically secured to said
wire rope wherein said jacking plate provides an
attachment section between said jack and said structural
20 components.

35. The method of claim 26, further including the step of providing solid corners within the wash structure wherein said corners provide system support conduits and
25 additional structural support for said wash structure.

36. The method of claim 26, further including the step of covering said wash structure with canvass sections wherein said canvass sections isolate wash operations within said
30 vehicle wash structure.

37. The method of claim 26, further including the step of installing roller canvass sections at the ends of said vehicle wash structure.

5 38. The method of claim 26, further including the step of providing heat to said vehicle wash structure.

39. The method of claim 26, further including the step of providing electrical power to said vehicle wash structure.

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40. The method of claim 26, further including the step of providing compressed air to said vehicle wash structure.

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41. A method of washing a vehicle using a mobile self-contained vehicle wash; said method comprising the steps of:

providing the mobile self-contained vehicle wash of claim 1;

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soaking the vehicle with fluid supplied by fixed spray nozzles by remotely activating pumps within said trailer;

adjusting with a foot pedal an amount of said fluid dispensed by the spray nozzles;

applying a cleansing agent to said vehicle; and

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rinsing the vehicle with fluid supplied by said spray nozzles.

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42. The method of claim 41, wherein said soaking and application steps further include the high pressure atomized water of a hand-held sprayer.

43. The method of claim 41, including the further steps of:

capturing said fluid;

5 pumping said fluid to a tributary system within the trailer;

filtering said fluid, thereby making the fluid available for re-use within the vehicle wash.

44. The method of claim 41, further including the step of:

10 vacuuming the interior of the vehicle wherein said vacuum is remotely operated with the vehicle wash structure.

15 45. The method of claim 43, wherein said filtered fluid and residual effluence is held for future disposal.